F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	BW1A25,ETC		

INTERSECTION OPERATION

The intersection of MD 197 at Ramp C-1 and Snowden Road will operate in a NEMA five-phase full-traffic-actuated mode with southbound MD 197 operating with either northbound MD 197 or with the southbound to eastbound exclusive/permissive left turn movement. Snowden Road will operate concurrently with Proposed Ramp C-1. Presence loop detectors will be placed on Snowden Road and Ramp C-1 approaches and advance loop detectors on both MD 197 approaches.

A fully-actuated eight-phase traffic signal controller in a base-mounted system ready cabinet shall be installed at this intersection.

MD 197 is assumed to run in a North-South direction.

CONSTRUCTION DETAILS

A. Install 21' steel pole with twin 50'/50' mast arms, traffic signal heads and signs and control and distribution equipment (see drawing B-8) as shown (NOTE: 1-2" PVC (schedule 80) 90 degree angle conduit bend and 2-3" PVC 90 degree angle conduit bends).

B. Install 27' steel pole with twin 50'/50' mast arms, traffic signal heads and signs and 20' lighting arm and luminaire as shown on (NOTE: 2-3" PVC 90 degree angle conduit bends).

C. Install traffic signal controller in a base-mounted,system-ready cabinet. (NOTE: 1-2" PVC (schedule 80) 90 degree angle conduit bend, 2-4" PVC 90 degree angle conduit bends and 1-2" PVC (schedule 40) 90 degree angle conduit bend).

D. Install handhole.

E. Install 1" electrical conduit detector wire sleeve.

F. Install 3" schedule 40 electrical conduit-trenched/buried.

G. Install 3" schedule 80 electrical conduit-pushed/under existing pavement.

H. Install 2-4" schedule 40 electrical conduit-trenched/buried.

I. Install 2" schedule 80 electrical conduit-trenched/buried.

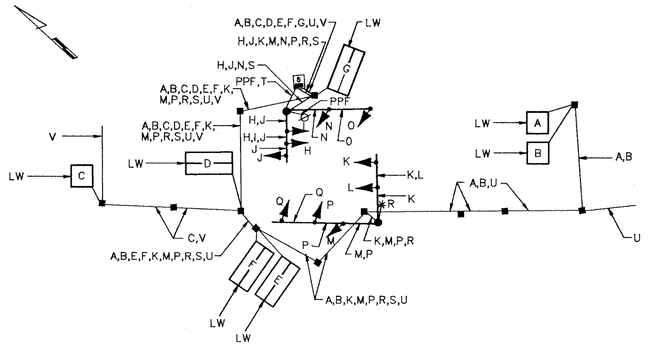
J. Install 6' x 30' loop detector, quadrupole type (2-4-2 turns).

K. Install 6' x 6' loop detector (3 turns).

L. Install 24" solid white stop line.

GENERAL NOTES:

1. CONTRACTOR MUST VERIFY LOCATION OF ALL PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
2. ALL SIGNS SHALL BE INSTALLED AS PER SIGNAL PLAN OR AS DIRECTED BY THE CONTRACTING OFFICER.
3. "D.O." INDICATES DELAY OUTPUT LOOP DETECTOR.
4. PAVEMENT MARKINGS DETAILED ARE TO BE INSTALLED BY THE CONTRACTOR AS PER MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS.



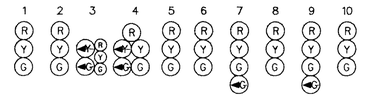
WIRING LEGEND

LW	LOOP WIRE
A-G	2-CONDUCTOR CABLE (ALUMINUM SHIELDED)
I,L,O,Q	5-CONDUCTOR CABLE (NO. 14 A.W.G.)
H,J,K,M,N,P	7-CONDUCTOR CABLE (NO. 14 A.W.G.)
R	2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
S	GROUND WIRE (NO. 6 A.W.G.)
T	1-CONDUCTOR CABLE (NO.4 A.W.G.)
U,V	12 PAIR COMMUNICATION CABLE (NO. 19 A.W.G.)
PPF	PROPOSED OVERHEAD POWER FEED BY BGE

EQUIPMENT LEGEND

- TRAFFIC SIGNAL METAL POLE
- BASE MOUNTED CONTROL CABINET
- HANDHOLE
- TRAFFIC SIGNAL HEAD
- LIGHTING ARM WITH LUMINAIRE

WIRING DIAGRAM



PHASE 2 & 5	R	R	G	G	G	R	R	R	R	R	
5 CHANGE	R	R	Y	Y	G	R	R	R	R	R	
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	R	
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	
PHASE 3	R	R	R	R	R	R	R	R	G	G	
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	
PHASE 4	R	R	R	R	R	G	G	G	R	R	
4 CHANGE	R	R	R	R	R	Y	Y	Y	R	R	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	

PHASING CHART

RUMMEL, KLEPPER & KAHL
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MD 21217
TEL. (410) 728-2900

REVISIONS:	APPROVALS:
	CHIEF SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER TRAFFIC
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION LOG MILE • 16019711.69

DRAWN BY: ZAJ
DES. BY: ZAJ
CHK. BY:

MD 197/SNOWDEN ROAD/B/W PKWY. RAMP C-1
GENERAL INFORMATION
COUNTY: PRINCE GEORGE'S

DATE: APRIL, 1996 F.A.P. NO. BW1A25,ETC
SCALE: NONE S.H.A. NO.

TS/STD. NO.: TS-3582-GI-1

SHEET NO. ___ OF ___